1879MNRAS..39..297.

Papers read before the Society from February 1878 *to February* 1879.

1878.

Mar. 8. On a new Variable Star in the constellation *Ara*. J. Tebbutt.

On certain groups of Stars with common proper motions. Prof. T. H. Safford.

On the solution by trial of Lambert's theorem in Olbers's method for the computation of parabolic orbits. R. H. M. Bosanquet.

Observations of Occultations of Stars by the Moon, and of phenomena of *Jupiter's* Satellites made at the Royal Observatory, Greenwich, in the year 1877. The Astronomer Royal.

On the Telescopic Observations of the Transit of *Venus*, 1874, made in the expedition of the British Government, and on the conclusion to be deduced from those observations. E. J. Stone.

Radiant Points of Shooting Stars from the Italian observations in 1872. W. F. Denning.

Observations of Shooting Stars in 1877. W. F. Denning.

On the proper motion in Right Ascension of 92 *Draconis*. A. W. Downing.

On the supposed influence of a mass of brickwork upon the errors of a Transit Instrument in its neighbourhood. J. T. Plummer.

Galileo's Trial before the Inquisition in the light of recent researches. Sedley Taylor.

List of known accordances between Cometary and observed Meteor Showers. Prof. A. S. Herschel.

Ephemeris for physical observations of *Jupiter*, 1878. A. Marth.

On Hansen's terms of long period in the Lunar Theory. E. Neison.

On Mr. Stone's note in the January number of the *Monthly Notices*. R. A. Proctor.

On the determination of the axial position of *Mars* with respect to the Earth at any epoch. R. A. Proctor.

Ephemeris of *Mars* for the Opposition of 1877. D. Gill.

April 12. On the duration of Meteor Showers. R. P. Greg.

The luminous spot on *Mercury* in Transit. B. G. Jenkins.

A Comparison of the observations of contact of *Venus* with the Sun's limb in the Transit of 1874, December 8, made at the Royal Observatory, Cape of Good Hope, with the corresponding observations made at the stations in the Parliamentary Report, and a discussion of the results. E. J. Stone.

1879MNRAS..39..297

Photography at the least refrangible end of the Solar Spectrum. Captain Abney.

Observations of the companion of *α Canis Majoris* with the Transit Circle of the U. S. Naval Observatory. J. R. Eastman.

Early Transits of *Mercury*. Rev. S. J. Johnson.

Observations of polar and equatoreal diameters of *Mars* near Opposition, 1877. R. L. J. Ellery.

Note on the table, page 70, vol. ii., of *Dun Echt Observatory, Publications*. Lord Lindsay.

May 10. *β* Leonis and B.A.C. 3992. S. W. Burnham.

The Transit of *Mercury*, May 6, 1878. G. F. Chambers.

The Transit of *Mercury*, May 6, 1878. C. L. Prince.

Observations of the Transit of *Mercury*, 1878, May 6, made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

The April Lyrids and contemporary Meteor showers. W. F. Denning.

The Transit of *Mercury*, 1878, May 6. Prof. C. Pritchard.

Observations of the Transit of *Mercury* 1878, May 6, made at Antwerp. Baron von Ertbon and MM. de Boë and Schleusner.

Observations of Ingress during the Transit of *Mercury*, May 6, 1878. F. C. Penrose.

The Transit of *Mercury*, 1878. J. Brett.

Observations of the Transit of *Mercury* of 1878, May 6. A. C. Ranyard.

Note on the comparative brightness of the different parts of the disk of *Venus*. A. C. Ranyard.

The Transit of *Mercury*, May 6, 1878. R. A. Proctor.

Note on the duplicity of the companion to *Rigel*. S. W. Burnham.

Observations of the Transit of *Mercury*, May 6, 1878. J. J. Cole.

On the heat of the Stars. J. J. Waterston.

June 14. On the position of λ *Ursæ Minoris*. Prof. T. H. Safford.

Observations of the Transit of *Mercury*, May 6, 1878, at Princeton, New Jersey. Prof. C. A. Young.

On the late Opposition of *Mars* (extract from a letter to the Astronomer Royal). Maxwell Hall.

Observations of the Transit of *Mercury*, 1878, May 6 (extract from a letter to the Astronomer Royal). Maxwell Hall.

On the spectrum of the New Star in *Cygnus*. T. W. Backhouse.

On the measurement of the inequality of the pivots of Transit Instruments by means of the Spherometer-Caliper. Prof. W. Harkness.

A reply to Mr. Proctor's note in the March number of the *Monthly Notices*. E. J. Stone.

1879MNRAS..39..297.

Observations of the Transit of *Mercury* made at the Allegheny Observatory. S. P. Langley.

New Double Stars. S. W. Burnham.

Note on the great Comet of 1861. J. Tebbutt.

On the Atmosphere of *Mars.* R. S. Newall.

On a Solar Thermometer Couple to measure the radiant force of daylight. J. J. Waterston.

Transit of *Mercury*, May 6, 1878. J. I. Plummer.

Note on the Belgian observations of the Transit of *Mercury.* Capt. W. Noble.

On the mean Solar Parallax as derived from the observations of the Transit of *Venus*, 1874 (communicated by the Astronomer Royal). Capt. G. L. Tupman.

Observations of the Transit of *Mercury*, May 6, 1878, at Dun Echt Observatory. Lord Lindsay and Dr. R. Copeland.

Ephemeris for finding the position of the Satellite of *Neptune.* A. Marth.

The proper motions of certain Stars in the Greenwich Seven Year Catalogue for 1864. A. W. Downing.

Spectroscopic results for the motions of Stars in the line of sight, made at the Royal Observatory, Greenwich. III. Communicated by the Astronomer Royal.

On the existence of bright lines in the Solar Spectrum. W. H. M. Christie.

The Transit of *Mercury*, 1878, May 6. N. de Konkoly.

On some terms of long period in the mean motion of *Mars.* E. Neison.

Note on a remarkable property of the analytical expression for the constant term in the reciprocal of the Moon's radius vector. Prof. J. C. Adams.

On the Photographs of the Transit of *Venus* (communicated by the Astronomer Royal). Capt. G. L. Tupman.

Nov. 8. Note upon the proper motion of 5 *Serpentis.* T. H. Safford.

Transit of *Mercury*, May 6, 1878, observed at Cadiz. A. T. Arcimis.

Discovery of Encke's Comet. J. Tebbutt

Additions to the theory of the Sidereal System. Maxwell Hall.

Measures of the B Line in the spectrum of a high Sun. Prof. C. P. Smyth.

Double Star observations made in 1877–78 at Chicago with the 18½-inch Refractor of the Dearborn Observatory. S. W. Burnham.

Account of additional buildings and proceedings at the Oxford University Observatory. Prof. C. Pritchard.

Observations of the periodic Comet of Tempel, 1878. Prof. C. Pritchard.

1879MNRAS..39..297.

On Newcomb's correction to Hansen's value of the secular acceleration. E. Neison.

The total Eclipse of the Sun, July 29, 1878. F. C. Penrose.

Some remarks on the total Solar Eclipse of July 28, 1878. A. Schuster.

On the progress of the reductions in connection with the Ascension Expedition. D. Gill.

The Solar Eclipse of July 29, 1878. Prof. H. Draper.

Note on some remarks by Mr. Maxwell Hall on the Opposition of *Mars*. D. Gill.

Note on the presence of particles of Meteoric iron in the atmosphere. A. C. Ranyard.

On the results of the Meridian observations of the *Mars* comparison stars. D. Gill.

Note upon the star Bradley 2935. Prof. T. H. Safford.

On a portable Star Finder for altitude and azimuth telescopes. E. H. Liveing.

Dec. 13. Note on a Determination of the Mass of *Mars*. The Astronomer Royal.

On a new variable star, *ι Andromedæ*. J. E. Gore.

Total Eclipse of the Sun, July 29, 1878. W. H. Pickering.

Measure of the diameter of *Mercury* made at the Princeton Observatory, May 6, 1878. Prof. C. A. Young.

On the Conjunction of *Mars* and *Saturn*, 1879, June 30. Astronomer Royal.

Note on a phenomenon seen in the occultation of a Star at the Moon's bright limb. W. H. M. Christie.

Phenomena of *Jupiter's* Satellites, 1877–78, observed at the Stonyhurst Observatory. Rev. S. J. Perry.

Addition to the paper on the mass of *Mars*. The Astronomer Royal.

Reduction of the north polar distances of the Cape catalogue for 1860 to Auwers' standard. A. W. Downing.

On a variable Diaphragm for use in solar and sidereal observations. F. W. Levander.

A complete general solution of the problem of disturbed elliptic motion. E. Neison.

Notes on the late Admiral Smyth's "Cycle of Celestial Objects," vol ii., commonly known as the Bedford Catalogue. H. Sadler.

On Observations of *α Centauri* made with the Heliometer at Ascension in 1877. D. Gill.

On the visibility of Stars in the *Pleiades* to the naked eye. Prof. Winnecke.

1879MNRAS..39..297.

Note on some hitherto unnoticed features near the lunar crater *Hyginus*. Lord Lindsay and Dr. Copeland.

1879

Jan. 10. Observations of occultations of stars by the Moon and of phenomena of *Jupiter's* Satellites made at the Royal Observatory, Greenwich, in the year 1878. The Astronomer Royal.

On the practical advantages of Hartnup's method of testing Chronometers. A. E. Nevins.

On the observed errors of Bouvard's Tables of *Saturn*. E. Dunkin.

Note on *Hyperion*. Prof. A. Hall.

Observations of the Transit of *Mercury*, May 6, 1878, and of the occultation of *Mars* by the Moon, June 3, 1878, made at the Glasgow Observatory. Prof. R. Grant.

On the reduction of the north polar distances of the first Melbourne general catalogue for 1870 to Auwers' Standard. A. W. Downing.

Ephemeris for determining the positions of the Satelllite of *Uranus*, 1879. A. Marth.

Notes on Meteors observed November 27, 1878. Lord Lindsay and Dr. Copeland.